

Abstract of the Invention

The present invention is directed to a machine and a method for assembling blower wheels. The machine comprises a drive motor rotatably coupled to a first die, whereon a plurality of blower wheel components reside. A second die is oppositely disposed from the first die, and is operable to engage one or more of the plurality of blower wheel components. A transfer gear assembly rotatably couples the first die and the second die, wherein a rotation of the first die generally transfers to the second die, and wherein the rotation of first die and the second die is generally synchronized. A two-stage press is coupled to the first die and the second die, and is operable to axially compress the blower wheel components between the first die and the second die. A deforming member is operable to deform the hub during the compression of the blower wheel components. One or more springs couple the second die to the press, wherein the second die is operable to axially translate with respect to the press.

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